

09424686

1600

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:23:05

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

4 <110> APPLICANT: Hagen, Gustav
 5 Siegmund, Hans-Ulrich
 6 Weichel, Walter
 7 Wick, Maresa
 8 Zubov, Dmitry
 10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and
 11 Therapeutic Use
 13 <130> FILE REFERENCE: Bayer 10,203
 15 <140> CURRENT APPLICATION NUMBER: US 09/424,686B
 17 <141> CURRENT FILING DATE: 1999-11-29
 19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468
 21 <151> PRIOR FILING DATE: 1998-06-09
 23 <160> NUMBER OF SEQ ID NOS: 7
 25 <170> SOFTWARE: Microsoft Word

ERRORED SEQUENCES

640 <210> SEQ ID NO: 7
 641 <211> LENGTH: 2089
 642 <212> TYPE: DNA
 643 <213> ORGANISM: Homo sapiens
 645 <400> SEQUENCE: 7
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 650 gctgacgtcc agactccgct tcatcccca gacctgacggg ctgcggccga ttgtgaacat 180
 652 ggactacgtc gtgggagcca gaacgttccg cagagaaaag agggccgagc gtctcacctc 240
 654 gaggggtgaag gcactgttca gcgtgctcaa ctacgagcgg gcgcggcgcc cgggcctcct 300
 656 gggcgctct gtgctgggccc tggacgatcc ccacagggcc tggcgcacct tcgtgctgcg 360
 658 tgtgcgggccc caggaccgac cgacctgagc gtactttgtc aagggtggatg tgacgggagc 420
 660 gtacgacacc atccccagc acaggctcac ggaggctcat gccagcatca tcaaacccca 480
 662 gaacacgtac tgcgtgcgtc ggtatgccgt ggtccagaag gccgcccatt ggcacgtccg 540
 664 caaggccttc aagagccacg tctctacctt gacagacctc cagccgtaca tgcgacagtt 600
 666 cgtggctcac ctgcaggaga ccagcccgtc gaggggtgcc gtgctcatcg agcagagctc 660
 668 ctccctgaat gagggcagca gtggcctctt cgacgtcttc ctacgcttca tgtgccacca 720
 670 cgccgtgcgc atcaggggca agtcctacgt ccagtgccag gggatcccgc agggctccat 780
 672 cctctccacg ctgctctgca gcctgtgcta cggcgacatg gagaacaagc tgtttgcggg 840
 674 gattcggcgg gacgggctgc tcctgcgttt ggtggatgat ttcttggttg tgacacctca 900
 676 cctcaccac gcgaaaacct tcctcaggac cctgggtccga ggtgtccctg agtatggctg 960
 678 cgtggtgaac ttgcggaaga cagtgggtgaa cttccctgta gaagacgagg ccctgggtgg 1020
 680 cacggctttt gttcagatgc cggcccacgg cctattcccc tgggtgcggc tgctgctgga 1080
 682 taccgggacc ctggaggtgc agagcgacta ctccagctat gcccggaact ccatcagagc 1140
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Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:23:06

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

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690 gctgcagctc ccatttcata agcaagtttg gaagaacccc acatttttcc tgcgcgtcat 1380
692 ctctgacacg gcctccctct gctactccat cctgaaagcc aagaacgcag gtatgtgcag 1440
694 gtgcctggcc tcagtggcag cagtgcctgc ctgctggtgt tagtgtgtca ggagactgag 1500
696 tgaatctggg cttaggaagt tcttaccctt ttctgcatca ggaagtgggt taaccaacc 1560
698 actgtcaggc tcgtctgccc gccctctcgt ggggtgagca gagcacctga tggaaggac 1620
700 aggagctgtc tgggagctgc catccttccc acctgtctct gcctggggaa gcgctggggg 1680
702 gcctggtctc tcctgtttgc cccatggtgg gatttggggg gcctggcctc tcctgtttgc 1740
704 cctgtggtgg gattgggctg tctcccgtcc atggcactta gggcccttgt gcaaaccag 1800
706 gccaaaggct taggaggagg ccaggcccag gctacccac ccctctcagg agcagaggcc 1860
708 gcgtatcacc acgacagagc cccgcgccgt cctctgcttc ccagtcaccg tcctctgccc 1920
710 ctggacactt tgtccagcat caggagggtt tctgatccgt ctgaaattca agccatgtcg 1980
712 aacctgcggt cctgagctta acagcttcta ctttctgttc tttctgtgtt gtggagacct 2040
714 tgagaaggac cctgggagct ctgggaattt ggagtgacca aaggtgtgc 2089

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E--> 719 13

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,686B

DATE: 01/02/2003

TIME: 13:23:07

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

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09424686

1600

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:28:38

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

4 <110> APPLICANT: Hagen, Gustav
 5 Siegmund, Hans-Ulrich
 6 Weichel, Walter
 7 Wick, Maresa
 8 Zubov, Dmitry
 10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and
 11 Therapeutic Use
 13 <130> FILE REFERENCE: Bayer 10,203
 15 <140> CURRENT APPLICATION NUMBER: US 09/424,686B
 17 <141> CURRENT FILING DATE: 1999-11-29
 19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468
 21 <151> PRIOR FILING DATE: 1998-06-09
 23 <160> NUMBER OF SEQ ID NOS: 7
 25 <170> SOFTWARE: Microsoft Word
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 4042
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1
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 35 cgatgccgcg cgctccccgc tgccgagccg tgcgtccct gctgcgcagc cactaccgcg 120
 37 aggtgctgcc gctggccacg ttcgtgcggc gcctggggcc ccagggttg cggtggtgc 180
 39 agcgcgggga cccggcggtt ttcgcgcgcg tgggtggcca gtgcctggtg tgcgtgccct 240
 41 gggacgcacg gccgcccccc gccgccccct ccttccgcca ggtgtcctgc ctgaaggagc 300
 43 tgggtggccc agtgctgcag aggtgtgtgc agcgcgggcg gaagaacgtg ctggccttcg 360
 45 gcttcgcgct gctggacggg gcccgcgggg gccccccga ggccttcacc accagcgtgc 420
 47 gcagctacct gccaacacg gtgaccgacg cactgcgggg gagcggggcg tgggggctgc 480
 49 tgctgcgccg cgtgggcgac gacgtgctgg ttcacctgct ggcacgctgc gcgctctttg 540
 51 tgctggtggc tccagctgc gcctaccagg tgtgcggggc gccgctgtac cagctcggcg 600
 53 ctgccactca ggcccggccc ccgccacacg ctagtggacc ccgaaggcgt ctgggatgcg 660
 55 aacgggcctg gaaccatagc gtcaggaggg ccgggggtccc cctgggcctg ccagcccccg 720
 57 gtgcgaggag gcgcgggggc agtgccagcc gaagtctgcc gttgcccaag aggcccaggc 780
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 61 gcaggacgcg tggaccgagt gaccgtggtt tctgtgtggt gtcacctgcc agaccgcgcg 900
 63 aagaagccac ctctttggag ggtgcgctct ctggcacgcg ccactccac ccactccgtg 960
 65 gccgccagca ccacgcgggc ccccatcca catcgcgggc accacgtccc tgggacacgc 1020
 67 cttgtcccc ggtgtacgcc gagaccaagc acttcctcta ctctcaggc gacaaggagc 1080
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 77 ccccagcagc cggtgtctgt gcccgggaga agccccagg ctctgtggcg gccccgagg 1380
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DATE: 01/02/2003

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TIME: 13:28:38

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

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85 atgccaagct ctgctgcag gagctgacgt ggaagatgag cgtgcgggac tgcgcttggc 1620
87 tgcgcaggag cccaggggtt ggctgtgttc cggccgcaga gcaccgtctg cgtgaggaga 1680
89 tcctggccaa gttcctgcac tggctgatga gtgtgtacgt cgtcgagctg ctcaggtctt 1740
91 tcttttatgt cacggagacc acgtttcaaa agaacaggct ctttttctac cggaagagt 1800
93 tctggagcaa gttgcaaagc attggaatca gacagcactt gaagaggggtg cagctgcggg 1860
95 agctgtcgga agcagaggtc aggcagcatc gggaagccag gccgcctctg ctgacgtcca 1920
97 gactccgctt catccccaa cctgacgggc tgcggccgat tgtgaacatg gactacgtcg 1980
99 tgggagccag aacgttccgc agagaaaaga gggccgagcg tctcacctcg aggggtgaagg 2040
101 cactgttcag cgtgctcaac tacgagcggg cgcgccgcc cggcctcctg ggcgcctctg 2100
103 tgctgggcct ggacgatata cacagggcct ggcgacactt cgtgctgcgt gtgcggggccc 2160
105 aggaccgcc gcctgagctg tactttgtca aggtggatgt gacgggcggg tacgacacca 2220
107 tccccagga caggctcacg gaggtcatcg ccagcatcat caaaccaccag aacacgtact 2280
109 gcgtgcgtcg gtatgccgtg gtccagaagg ccgccatgg gcacgtccgc aaggccttca 2340
111 agagccacgt ctctacctg acagacctcc agccgtacat gcgacagttc gtggctcacc 2400
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117 tcaggggcaa gtcctacgtc cagtgccagg ggatcccga gggctccatc ctctccacgc 2580
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125 tgcggaagac agtgggtgaac ttccctgtag aagacgaggc cctgggtggc acggcttttg 2820
127 ttcagatgcc ggcccacggc ctattcccct ggtgoggcct gctgctggat acccggaacc 2880
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131 tcaaccgcg cttcaaggct gggaggaaca tgcgtcgcaa actctttggg gtcttgcggc 3000
133 tgaagtgtca cagcctgttt ctggatttgc aggtgaacag cctccagacg gtgtgcacca 3060
135 acatctacaa gatcctcctg ctgcaggcgt acaggtttca cgcagtgtgt ctgcagctcc 3120
137 catttcatca gcaagttttg aagaacccca catttttctt gcgctcatc tctgacacgg 3180
139 cctccctctg ctactccatc ctgaaagcca agaacgcagg gatgtcgctg ggggccaagg 3240
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145 agacgcagct gagtcggaag ctcccgggga cgacgctgac tgccctggag gccgcagcca 3420
147 acccggaact gccctcagac ttcaagacca tcctggactg atggccacc gccacagccc 3480
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153 aggcctgcat gtccggctga aggtgagtg tccggctgag gcctgagcga gtgtccagcc 3660
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161 accatccagg tggagaccct gagaaggacc ctgggagctc tgggaatttg gagtgaccaa 3900
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167 aaaaaaaaaa aaaaaaaaaa aa 4042
171 <210> SEQ ID NO: 2
172 <211> LENGTH: 1132
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 2

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RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:28:38

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

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177 Met Pro Arg Ala Pro Arg Cys Arg Ala Val Arg Ser Leu Leu Arg Ser
178 1 5 10 15
180 His Tyr Arg Glu Val Leu Pro Leu Ala Thr Phe Val Arg Arg Leu Gly
181 20 25 30
183 Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg
184 35 40 45
186 Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro
187 50 55 60
189 Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Ser Cys Leu Lys Glu Leu
190 65 70 75 80
192 Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys Asn Val
193 85 90 95
195 Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly Pro Pro
196 100 105 110
198 Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Thr
199 115 120 125
201 Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg Arg Val
202 130 135 140
204 Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu Phe Val
205 145 150 155 160
207 Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro Leu Tyr
208 165 170 175
210 Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala Ser Gly
211 180 185 190
213 Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser Val Arg
214 195 200 205
216 Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg Arg Arg
217 210 215 220
219 Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro Arg Arg
220 225 230 235 240
222 Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly Ser Trp
223 245 250 255
225 Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe Cys Val
226 260 265 270
228 Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu Gly Ala
229 275 280 285
231 Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln His His
232 290 295 300
234 Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp Thr Pro
235 305 310 315 320
237 Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser Ser Gly
238 325 330 335
240 Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu Arg Pro
241 340 345 350
243 Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu Gly Ser
244 355 360 365
246 Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu Pro Gln
247 370 375 380
249 Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly Asn His

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RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:28:38

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

250	385		390		395		400
252	Ala	Gln	Cys	Pro	Tyr	Gly	Val
253				405			410
255	Ala	Ala	Val	Thr	Pro	Ala	Ala
256				420			425
258	Gly	Ser	Val	Ala	Ala	Pro	Glu
259				435			440
261	Val	Gln	Leu	Leu	Arg	Gln	His
262				450			455
264	Val	Arg	Ala	Cys	Leu	Arg	Arg
265				465			470
267	Arg	His	Asn	Glu	Arg	Arg	Phe
268				485			490
270	Leu	Gly	Lys	His	Ala	Lys	Leu
271				500			505
273	Ser	Val	Arg	Asp	Cys	Ala	Trp
274				515			520
276	Val	Pro	Ala	Ala	Glu	His	Arg
277				530			535
279	Leu	His	Trp	Leu	Met	Ser	Val
280				545			550
282	Phe	Tyr	Val	Thr	Glu	Thr	Thr
283				565			570
285	Arg	Lys	Ser	Val	Trp	Ser	Lys
286				580			585
288	Leu	Lys	Arg	Val	Gln	Leu	Arg
289				595			600
291	His	Arg	Glu	Ala	Arg	Pro	Ala
292				610			615
294	Pro	Lys	Pro	Asp	Gly	Leu	Arg
295				625			630
297	Gly	Ala	Arg	Thr	Phe	Arg	Arg
298				645			650
300	Arg	Val	Lys	Ala	Leu	Phe	Ser
301				660			665
303	Pro	Gly	Leu	Leu	Gly	Ala	Ser
304				675			680
306	Ala	Trp	Arg	Thr	Phe	Val	Leu
307				690			695
309	Glu	Leu	Tyr	Phe	Val	Lys	Val
310				705			710
312	Pro	Gln	Asp	Arg	Leu	Thr	Glu
313				725			730
315	Asn	Thr	Tyr	Cys	Val	Arg	Arg
316				740			745
318	Gly	His	Val	Arg	Lys	Ala	Phe
319				755			760
321	Leu	Gln	Pro	Tyr	Met	Arg	Gln
322				770			775

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/424,686B

TIME: 13:28:38

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw

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324   Pro Leu Arg Asp Ala Val Val Ile Glu Gln Ser Ser Ser Leu Asn Glu
325   785                               790                               795                               800
327   Ala Ser Ser Gly Leu Phe Asp Val Phe Leu Arg Phe Met Cys His His
328                               805                               810                               815
330   Ala Val Arg Ile Arg Gly Lys Ser Tyr Val Gln Cys Gln Gly Ile Pro
331                               820                               825                               830
333   Gln Gly Ser Ile Leu Ser Thr Leu Leu Cys Ser Leu Cys Tyr Gly Asp
334                               835                               840                               845
336   Met Glu Asn Lys Leu Phe Ala Gly Ile Arg Arg Asp Gly Leu Leu Leu
337                               850                               855                               860
339   Arg Leu Val Asp Asp Phe Leu Leu Val Thr Pro His Leu Thr His Ala
340   865                               870                               875                               880
342   Lys Thr Phe Leu Arg Thr Leu Val Arg Gly Val Pro Glu Tyr Gly Cys
343                               885                               890                               895
345   Val Val Asn Leu Arg Lys Thr Val Val Asn Phe Pro Val Glu Asp Glu
346                               900                               905                               910
348   Ala Leu Gly Gly Thr Ala Phe Val Gln Met Pro Ala His Gly Leu Phe
349                               915                               920                               925
351   Pro Trp Cys Gly Leu Leu Leu Asp Thr Arg Thr Leu Glu Val Gln Ser
352   930                               935                               940
354   Asp Tyr Ser Ser Tyr Ala Arg Thr Ser Ile Arg Ala Ser Leu Thr Phe
355   945                               950                               955                               960
357   Asn Arg Gly Phe Lys Ala Gly Arg Asn Met Arg Arg Lys Leu Phe Gly
358                               965                               970                               975
360   Val Leu Arg Leu Lys Cys His Ser Leu Phe Leu Asp Leu Gln Val Asn
361                               980                               985                               990
363   Ser Leu Gln Thr Val Cys Thr Asn Ile Tyr Lys Ile Leu Leu Leu Gln
364   995                               1000                               1005
366   Ala Tyr Arg Phe His Ala Cys Val Leu Gln Leu Pro Phe His Gln Gln
367   1010                               1015                               1020
369   Val Trp Lys Asn Pro Thr Phe Phe Leu Arg Val Ile Ser Asp Thr Ala
370   1025                               1030                               1035                               1040
372   Ser Leu Cys Tyr Ser Ile Leu Lys Ala Lys Asn Ala Gly Met Ser Leu
373   1045                               1050                               1055
375   Gly Ala Lys Gly Ala Ala Gly Pro Leu Pro Ser Glu Ala Val Gln Trp
376   1060                               1065                               1070
378   Leu Cys His Gln Ala Phe Leu Leu Lys Leu Thr Arg His Arg Val Thr
379   1075                               1080                               1085
381   Tyr Val Pro Leu Leu Gly Ser Leu Arg Thr Ala Gln Thr Gln Leu Ser
382   1090                               1095                               1100
384   Arg Lys Leu Pro Gly Thr Thr Leu Thr Ala Leu Glu Ala Ala Ala Asn
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387   Pro Ala Leu Pro Ser Asp Phe Lys Thr Ile Leu Asp
388   1125                               1130
390 <210> SEQ ID NO: 3
391 <211> LENGTH: 1153
392 <212> TYPE: DNA
393 <213> ORGANISM: Homo sapiens
395 <400> SEQUENCE: 3

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,686B

DATE: 01/02/2003

TIME: 13:28:39

Input Set : N:\AMC\6497882.txt

Output Set: N:\CRF4\01022003\I424686B.raw